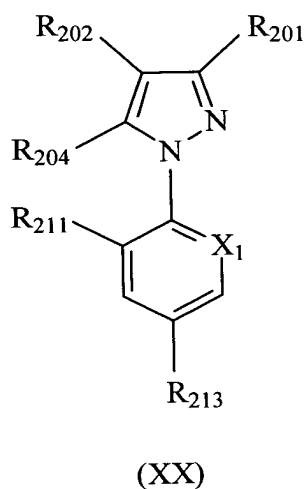


WHAT IS CLAIMED IS:

1. The method of controlling parasites in or on an animal in need of such control, said method comprising orally administering to said animal a parasitically effective, substantially non-emetic amount of a 1-arylpyrazole having the formula (XX):

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wherein:

R₂₀₁ is cyano, C(O)alkyl, C(S)NH₂, alkyl, C(=NOH)NH₂ or C(=NNH₂)NH₂;

10 R₂₀₂ is S(O)_hR₂₀₃, C₂-C₃ alkenyl, C₂-C₃ haloalkenyl, cycloalkyl, halocycloalkyl or C₂-C₃ alkynyl;

R₂₀₃ is alkyl or haloalkyl;

R₂₀₄ is -N(R₂₀₅)C(O)aryl;

15 R₂₀₅ is alkyl, haloalkyl, cycloalkyl, halocycloalkyl, cycloalkylalkyl, halocycloalkylalkyl, alkoxyalkyl, haloalkoxyalkyl, C₃-C₅ alkenyl, C₃-C₅ haloalkenyl, C₃-C₅ alkynyl, or C₃-C₅ haloalkynyl;

X₁ is nitrogen or C-R₂₁₂;

R_{211} and R_{212} are, independently, halogen, hydrogen, CN or NO_2 ;
 R_{213} is halogen, haloalkyl, haloalkoxy, $-S(O)_kCF_3$, or $-SF_5$; and
h and k are, independently, 0, 1, or 2;
or a veterinarily acceptable salt thereof.

5

2. The method according to Claim 1, wherein R_{201} is cyano; R_{202} is SCF_3 , $S(O)CF_3$ or $S(O)_2CF_3$; R_{211} is Cl; X_1 is C-Cl; R_{213} is CF_3 or SF_5 ; R_{205} is CH_3 and aryl is phenyl, thienyl, furyl or pyridyl, each of which is unsubstituted or substituted by alkoxy, haloalkyl or halogen.

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3. The method according to Claim 2, wherein each of phenyl, thienyl, furyl and pyridyl is unsubstituted or substituted by methoxy, trifluoromethyl or chloro.

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4. The method according to Claim 3, wherein aryl is phenyl, 4-methoxyphenyl, 4-trifluoromethylphenyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 6-chloro-2-pyridyl, 6-trifluoromethyl-2-pyridyl, 5-chloro-2-furyl, 5-trifluoromethyl-2-furyl, 5-methoxy-2-thienyl, or 5-trifluoromethyl-2-thienyl.

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5. The method according to Claim 4, wherein R_{213} is CF_3 .

6. The method according to Claim 5, wherein:

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- (a) R_{202} is SCF_3 and aryl is 4-methoxyphenyl;
- (b) R_{202} is SCF_3 and aryl is 4-trifluoromethylphenyl; or
- (c) R_{202} is SCF_3 and aryl is 2-furyl.

7. The method according to Claim 1, wherein the animal is a domestic animal.

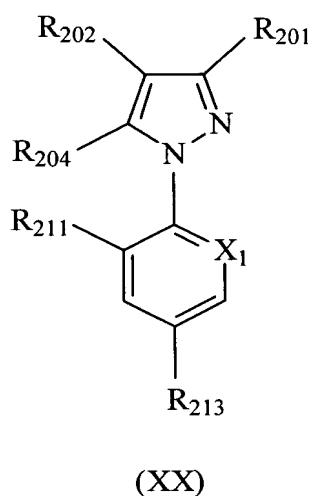
5 8. The method according to Claim 6, wherein the domestic animal is a cat or dog.

9. The method according to Claim 1, wherein the compound of formula (XX) is orally administered to the animal in a dosage of from 0.1 to 500 mg/kg.

10 10. The method according to Claim 1, wherein the compound of formula (XX) is administered at a frequency of from about once per week to about once per year.

15 11. The method according to Claim 9, wherein the compound of formula (XX) is administered at a frequency of from about once per week to about once per year.

12. A compound having the formula (XX):



wherein:

- 5 R_{201} is cyano, C(O)alkyl, C(S)NH₂, alkyl, C(=NOH)NH₂ or C(=NNH₂)NH₂;
- R_{202} is S(O)_hR₂₀₃, C₂-C₃ alkenyl, C₂-C₃ haloalkenyl, cycloalkyl, halocycloalkyl or C₂-C₃ alkynyl;
- R_{203} is alkyl or haloalkyl;
- 10 R_{204} is -N(R₂₀₅)C(O)aryl;
- R_{205} is alkyl, haloalkyl, cycloalkyl, halocycloalkyl, cycloalkylalkyl, halocycloalkylalkyl, alkoxyalkyl, haloalkoxyalkyl, C₃-C₅ alkenyl, C₃-C₅ haloalkenyl, C₃-C₅ alkynyl, or C₃-C₅ haloalkynyl;
- X_1 is nitrogen or C-R₂₁₂;
- 15 R_{211} and R_{212} are, independently, halogen, hydrogen, CN or NO₂;
- R_{213} is halogen, haloalkyl, haloalkoxy, -S(O)_kCF₃, or -SF₅; and
- h and k are, independently, 0, 1 or 2;
- or a veterinarily acceptable salt thereof.

13. A compound according to Claim 12, wherein R_{201} is cyano; R_{202} is SCF_3 , $S(O)CF_3$ or $S(O)_2CF_3$; R_{211} is Cl; X_1 is C-Cl; R_{213} is CF_3 or SF_5 ; R_{205} is CH_3 and aryl is phenyl, thienyl, furyl or pyridyl, each of which is unsubstituted or substituted by alkoxy, haloalkyl or halogen.

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14. A compound according to Claim 13, wherein each of phenyl, thienyl, furyl and pyridyl is unsubstituted or substituted by methoxy, trifluoromethyl or chloro.

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15. A compound according to Claim 14, wherein aryl is phenyl, 4-methoxyphenyl, 4-trifluoromethylphenyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 6-chloro-2-pyridyl, 6-trifluoromethyl-2-pyridyl, 5-chloro-2-furyl, 5-trifluoromethyl-2-furyl, 5-methoxy-2-thienyl, or 5-trifluoromethyl-2-thienyl.

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16. A compound according to Claim 15, wherein R_{213} is CF_3 .

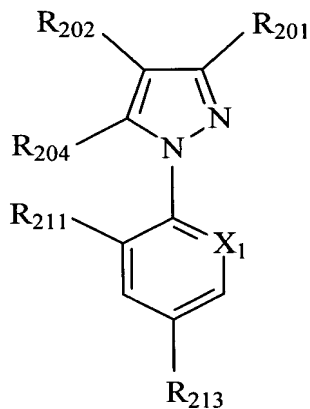
17. The compound according to Claim 16, wherein:

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- (a) R_{202} is SCF_3 and aryl is 4-methoxyphenyl;
- (b) R_{202} is SCF_3 and aryl is 4-trifluoromethylphenyl; or
- (c) R_{202} is SCF_3 and aryl is 2-furyl.

18. A composition comprising a parasitically effective, substantially non-emetic amount of a compound having the formula (XX):

25



(XX)

wherein:

R₂₀₁ is cyano, C(O)alkyl, C(S)NH₂, alkyl, C(=NOH)NH₂ or C(=NNH₂)NH₂;

5 R₂₀₂ is S(O)_hR₂₀₃, C₂-C₃ alkenyl, C₂-C₃ haloalkenyl, cycloalkyl, halocycloalkyl or C₂-C₃ alkynyl;

R₂₀₃ is alkyl or haloalkyl;

R₂₀₄ is -N(R₂₀₅)C(O)aryl;

10 R₂₀₅ is alkyl, haloalkyl, cycloalkyl, halocycloalkyl, cycloalkylalkyl, halocycloalkylalkyl, alkoxyalkyl, haloalkoxyalkyl, C₃-C₅ alkenyl, C₃-C₅ haloalkenyl, C₃-C₅ alkynyl, or C₃-C₅ haloalkynyl;

X₁ is nitrogen or C-R₂₁₂;

R₂₁₁ and R₂₁₂ are, independently, halogen, hydrogen, CN or NO₂;

R₂₁₃ is halogen, haloalkyl, haloalkoxy, -S(O)_kCF₃, or -SF₅; and

h and k are, independently, 0, 1, or 2;

15 or a veterinarily acceptable salt thereof;

and a veterinarily acceptable carrier therefor.

19. A veterinary composition according to Claim 18 comprising, in oral unit dosage form:

(a) a parasitically effective, substantially non-emetic amount of a compound having the formula (XX) as defined in Claim 18, or a veterinarily acceptable salt thereof; and

(b) a veterinarily acceptable carrier therefor.

20. A veterinary composition according to Claim 19, wherein the oral unit dosage amount of the compound of formula (XX) is from 0.1 to 500 mg per kg of animal body weight.